

Refine Search

Search Results -

Terms	Documents
(L17 or L18) and (L3 or L11)	21

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

09/887,873

Search:

Search History

DATE: Friday, December 24, 2004 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

DB=USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L20</u>	(L17 or L18) and (L3 or L11)
<u>L19</u>	(L17 or L18) and L1
<u>L18</u>	L12 and (L3 or L11)
<u>L17</u>	L12 and L1
<u>L16</u>	707/102.ccls.
<u>L15</u>	707/4.ccls.
<u>L14</u>	707/4, 102.ccls.
<u>L13</u>	715/503-504.ccls.
<u>L12</u>	715/503-504, 538.ccls.
<u>L11</u>	L1 and updating formula\$1
<u>L10</u>	L1 and (automatic\$5 same updating formula\$1)
<u>L9</u>	L8 and (flag\$4 same circular reference\$1)
<u>L8</u>	(L1 or L3) and (circular reference\$1)
<u>L7</u>	(L1 or L3) and (reject\$3 same circular reference\$1)
<u>L6</u>	(L1 or L3) and (reject\$3 same (bad formula\$1 or bad reference\$1))
<u>L5</u>	L1 and (reject\$3 same (illegal formula\$1 or illegal reference\$1))
<u>L4</u>	L3 and (reject\$3 same (illegal formula\$1 or illegal reference\$1))

Hit Count Set Name

result set

21	<u>L20</u>
165	<u>L19</u>
21	<u>L18</u>
165	<u>L17</u>
2101	<u>L16</u>
1491	<u>L15</u>
0	<u>L14</u>
216	<u>L13</u>
242	<u>L12</u>
2	<u>L11</u>
0	<u>L10</u>
0	<u>L9</u>
22	<u>L8</u>
0	<u>L7</u>
0	<u>L6</u>
0	<u>L5</u>
0	<u>L4</u>

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<u>L3</u>	L1 and (update\$3 same formula\$1 same reference\$1)	41	<u>L3</u>
<u>L2</u>	L1 and (update\$3 same formula\$1 same (bad or illegal or inappropriate))	1	<u>L2</u>
<u>L1</u>	spreadsheet\$1	8128	<u>L1</u>

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 2 of 2 returned.

1. Document ID: US 6785805 B1

Using default format because multiple data bases are involved.

L11: Entry 1 of 2

File: USPT

Aug 31, 2004

US-PAT-NO: 6785805

DOCUMENT-IDENTIFIER: US 6785805 B1

TITLE: Network-based configuration method for systems integration in test, measurement, and automation environments

DATE-ISSUED: August 31, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
House; Richard W.	Austin	TX		
Gamez; Cesar R.	Austin	TX		
Hinkle, Jr.; Francis E.	Austin	TX		

US-CL-CURRENT: [713/1](#); [700/90](#), [700/91](#), [700/92](#), [700/93](#), [700/94](#), [700/95](#), [700/96](#), [705/26](#), [705/27](#), [705/29](#), [713/100](#), [713/2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	Image
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2. Document ID: US 5603021 A

L11: Entry 2 of 2

File: USPT

Feb 11, 1997

US-PAT-NO: 5603021

DOCUMENT-IDENTIFIER: US 5603021 A

TITLE: Methods for composing formulas in an electronic spreadsheet system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	Image
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Terms	Documents
L1 and updating formula\$1	2

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Search Results - Record(s) 1 through 22 of 22 returned.

1. Document ID: US 6742143 B2

Using default format because multiple data bases are involved.

L8: Entry 1 of 22

File: USPT

May 25, 2004

US-PAT-NO: 6742143

DOCUMENT-IDENTIFIER: US 6742143 B2

TITLE: Method and apparatus for analyzing performance of data processing system

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kaler; Christopher G.	Redmond	WA		
Lovell; Martyn S.	Seattle	WA		
Wabbe; Robert S.	Seattle	WA		
Ferguson; William J.	Bellevue	WA		
Sharp; Oliver J.	New York	NY		

US-CL-CURRENT: 714/39; 719/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Figures	References	Claims	KWIC	Draw Desc	Image
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2. Document ID: US 6708293 B2

L8: Entry 2 of 22

File: USPT

Mar 16, 2004

US-PAT-NO: 6708293

DOCUMENT-IDENTIFIER: US 6708293 B2

** See image for Certificate of Correction **

TITLE: Method and apparatus for analyzing performance of data processing system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Figures	References	Claims	KWIC	Draw Desc	Image
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3. Document ID: US 6691254 B2

L8: Entry 3 of 22

File: USPT

Feb 10, 2004

US-PAT-NO: 6691254

DOCUMENT-IDENTIFIER: US 6691254 B2

** See image for Certificate of Correction **

TITLE: Method and apparatus for analyzing performance of data processing system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	Image
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4. Document ID: US 6671830 B2

L8: Entry 4 of 22

File: USPT

Dec 30, 2003

US-PAT-NO: 6671830

DOCUMENT-IDENTIFIER: US 6671830 B2

TITLE: Method and apparatus for analyzing performance of data processing system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	Image
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5. Document ID: US 6671829 B2

L8: Entry 5 of 22

File: USPT

Dec 30, 2003

US-PAT-NO: 6671829

DOCUMENT-IDENTIFIER: US 6671829 B2

TITLE: Method and apparatus for analyzing performance of data processing system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	Image
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6. Document ID: US 6467052 B1

L8: Entry 6 of 22

File: USPT

Oct 15, 2002

US-PAT-NO: 6467052

DOCUMENT-IDENTIFIER: US 6467052 B1

TITLE: Method and apparatus for analyzing performance of data processing system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	Image
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7. Document ID: US 6292810 B1

L8: Entry 7 of 22

File: USPT

Sep 18, 2001

US-PAT-NO: 6292810

DOCUMENT-IDENTIFIER: US 6292810 B1

TITLE: Polymorphic enhanced modeling

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw Desc	Image
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8. Document ID: US 6249793 B1

L8: Entry 8 of 22

File: USPT

Jun 19, 2001

US-PAT-NO: 6249793

DOCUMENT-IDENTIFIER: US 6249793 B1

h e b b g e e f e g e f b e

** See image for [Certificate of Correction](#) **

TITLE: Mostly concurrent compaction in a garbage collection system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Summary	Claims	KWIC	Draw Desc	Image
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9. Document ID: US 6199078 B1

L8: Entry 9 of 22

File: USPT

Mar 6, 2001

US-PAT-NO: 6199078

DOCUMENT-IDENTIFIER: US 6199078 B1

TITLE: Analytic network engine and [spreadsheet](#) interface system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Summary	Claims	KWIC	Draw Desc	Image
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10. Document ID: US 5794038 A

L8: Entry 10 of 22

File: USPT

Aug 11, 1998

US-PAT-NO: 5794038

DOCUMENT-IDENTIFIER: US 5794038 A

TITLE: Method and system for notifying clients using multicasting and for connecting objects using delayed binding

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Summary	Claims	KWIC	Draw Desc	Image
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11. Document ID: US 5790435 A

L8: Entry 11 of 22

File: USPT

Aug 4, 1998

US-PAT-NO: 5790435

DOCUMENT-IDENTIFIER: US 5790435 A

TITLE: Automated development of timing diagrams for electrical circuits

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Summary	Claims	KWIC	Draw Desc	Image
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12. Document ID: US 5652880 A

L8: Entry 12 of 22

File: USPT

Jul 29, 1997

US-PAT-NO: 5652880

DOCUMENT-IDENTIFIER: US 5652880 A

** See image for [Certificate of Correction](#) **

TITLE: Apparatus and method for storing, retrieving and presenting objects with rich links

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Summary	Claims	KWIC	Draw Desc	Image
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☐ 13. Document ID: US 5600331 A

L8: Entry 13 of 22

File: USPT

Feb 4, 1997

US-PAT-NO: 5600331

DOCUMENT-IDENTIFIER: US 5600331 A

**** See image for Certificate of Correction ****

TITLE: Conical microstrip antenna prepared on flat substrate and method for its preparation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KMC	Draw Desc	Image
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☐ 14. Document ID: US 5576979 A

L8: Entry 14 of 22

File: USPT

Nov 19, 1996

US-PAT-NO: 5576979

DOCUMENT-IDENTIFIER: US 5576979 A

TITLE: Automated development of timing diagrams for electrical circuits

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KMC	Draw Desc	Image
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☐ 15. Document ID: US 5550964 A

L8: Entry 15 of 22

File: USPT

Aug 27, 1996

US-PAT-NO: 5550964

DOCUMENT-IDENTIFIER: US 5550964 A

TITLE: System and methods for intelligent analytical graphing

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KMC	Draw Desc	Image
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☐ 16. Document ID: US 5517645 A

L8: Entry 16 of 22

File: USPT

May 14, 1996

US-PAT-NO: 5517645

DOCUMENT-IDENTIFIER: US 5517645 A

TITLE: Method and system for interfacing components via aggregate components formed by aggregating the components each with an instance of a component manager

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KMC	Draw Desc	Image
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☐ 17. Document ID: US 5381524 A

L8: Entry 17 of 22

File: USPT

Jan 10, 1995

US-PAT-NO: 5381524

DOCUMENT-IDENTIFIER: US 5381524 A

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Search Results - Record(s) 1 through 21 of 21 returned.

1. Document ID: US 6779151 B2

Using default format because multiple data bases are involved.

L18: Entry 1 of 21

File: USPT

Aug 17, 2004

US-PAT-NO: 6779151

DOCUMENT-IDENTIFIER: US 6779151 B2

TITLE: Storing objects in a spreadsheet

DATE-ISSUED: August 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cahill; Jason	Carnation	WA		
Allen; Jason	Redmond	WA		

US-CL-CURRENT: 715/503; 707/102, 707/103R, 707/104.1, 707/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Substantive	Administrative	Claims	KIMC	Draw Desc	Image
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2. Document ID: US 6757867 B2

L18: Entry 2 of 21

File: USPT

Jun 29, 2004

US-PAT-NO: 6757867

DOCUMENT-IDENTIFIER: US 6757867 B2

TITLE: Method and system in an electronic spreadsheet for adding or removing elements from a cell named range according to different modes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Substantive	Administrative	Claims	KIMC	Draw Desc	Image
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3. Document ID: US 6640234 B1

L18: Entry 3 of 21

File: USPT

Oct 28, 2003

US-PAT-NO: 6640234

DOCUMENT-IDENTIFIER: US 6640234 B1

**** See image for Certificate of Correction ****

TITLE: Extension of formulas and formatting in an electronic spreadsheet

Full	Title	Citation	Front	Review	Classification	Date	Reference	Substantive	Administrative	Claims	KIMC	Draw Desc	Image
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4. Document ID: US 6539403 B2

L18: Entry 4 of 21

File: USPT

Mar 25, 2003

US-PAT-NO: 6539403

DOCUMENT-IDENTIFIER: US 6539403 B2

TITLE: Method and system for facilitating networked information exchange

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMC	Draw Desc	Image
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5. Document ID: US 6496832 B2

L18: Entry 5 of 21

File: USPT

Dec 17, 2002

US-PAT-NO: 6496832

DOCUMENT-IDENTIFIER: US 6496832 B2

TITLE: Visualization spreadsheet

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMC	Draw Desc	Image
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6. Document ID: US 6438565 B1

L18: Entry 6 of 21

File: USPT

Aug 20, 2002

US-PAT-NO: 6438565

DOCUMENT-IDENTIFIER: US 6438565 B1

TITLE: System and methods for improved scenario management in an electronic spreadsheet

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMC	Draw Desc	Image
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7. Document ID: US 6341292 B1

L18: Entry 7 of 21

File: USPT

Jan 22, 2002

US-PAT-NO: 6341292

DOCUMENT-IDENTIFIER: US 6341292 B1

TITLE: Spreadsheet-based network information exchange with two-part cache

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMC	Draw Desc	Image
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8. Document ID: US 6292811 B1

L18: Entry 8 of 21

File: USPT

Sep 18, 2001

US-PAT-NO: 6292811

DOCUMENT-IDENTIFIER: US 6292811 B1

TITLE: Populating cells of an electronic financial statement

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw Desc	Image
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9. Document ID: US 6292810 B1

L18: Entry 9 of 21

File: USPT

Sep 18, 2001

US-PAT-NO: 6292810

DOCUMENT-IDENTIFIER: US 6292810 B1

TITLE: Polymorphic enhanced modeling

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw Desc	Image
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10. Document ID: US 6192379 B1

L18: Entry 10 of 21

File: USPT

Feb 20, 2001

US-PAT-NO: 6192379

DOCUMENT-IDENTIFIER: US 6192379 B1

TITLE: Data model compiler selectively using a reference store of labelled program components within a common class

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw Desc	Image
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11. Document ID: US 6134563 A

L18: Entry 11 of 21

File: USPT

Oct 17, 2000

US-PAT-NO: 6134563

DOCUMENT-IDENTIFIER: US 6134563 A

** See image for Certificate of Correction **

TITLE: Creating and editing documents

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw Desc	Image
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12. Document ID: US 5926822 A

L18: Entry 12 of 21

File: USPT

Jul 20, 1999

US-PAT-NO: 5926822

DOCUMENT-IDENTIFIER: US 5926822 A

TITLE: Transformation of real time data into times series and filtered real time data within spreadsheet application

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw Desc	Image
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13. Document ID: US 5835683 A

L18: Entry 13 of 21

File: USPT

Nov 10, 1998

h e b b g e e f e g e f b e

US-PAT-NO: 5835683

DOCUMENT-IDENTIFIER: US 5835683 A

TITLE: System and method for authoring an expert system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw Desc	Image
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14. Document ID: US 5790435 A

L18: Entry 14 of 21

File: USPT

Aug 4, 1998

US-PAT-NO: 5790435

DOCUMENT-IDENTIFIER: US 5790435 A

TITLE: Automated development of timing diagrams for electrical circuits

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw Desc	Image
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15. Document ID: US 5742835 A

L18: Entry 15 of 21

File: USPT

Apr 21, 1998

US-PAT-NO: 5742835

DOCUMENT-IDENTIFIER: US 5742835 A

TITLE: Method and system of sharing common formulas in a spreadsheet program and of adjusting the same to conform with editing operations

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw Desc	Image
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16. Document ID: US 5721847 A

L18: Entry 16 of 21

File: USPT

Feb 24, 1998

US-PAT-NO: 5721847

DOCUMENT-IDENTIFIER: US 5721847 A

TITLE: Method and system for linking controls with cells of a spreadsheet

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw Desc	Image
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17. Document ID: US 5708827 A

L18: Entry 17 of 21

File: USPT

Jan 13, 1998

US-PAT-NO: 5708827

DOCUMENT-IDENTIFIER: US 5708827 A

TITLE: Spread sheet calculation method and apparatus by extracting an area to be updated by a calculation formula

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw Desc	Image
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☐ 18. Document ID: US 5553215 A

L18: Entry 18 of 21

File: USPT

Sep 3, 1996

US-PAT-NO: 5553215

DOCUMENT-IDENTIFIER: US 5553215 A

TITLE: Method and system of sharing common formulas in a spreadsheet program and of adjusting the same to conform with editing operations

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KMIC	Draw Desc	Image
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☐ 19. Document ID: US 5499180 A

L18: Entry 19 of 21

File: USPT

Mar 12, 1996

US-PAT-NO: 5499180

DOCUMENT-IDENTIFIER: US 5499180 A

TITLE: System and methods for improved scenario management in an electronic spreadsheet

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KMIC	Draw Desc	Image
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☐ 20. Document ID: US 5381524 A

L18: Entry 20 of 21

File: USPT

Jan 10, 1995

US-PAT-NO: 5381524

DOCUMENT-IDENTIFIER: US 5381524 A

TITLE: Automated development of timing diagrams for electrical circuits

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KMIC	Draw Desc	Image
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☐ 21. Document ID: US 5303146 A

L18: Entry 21 of 21

File: USPT

Apr 12, 1994

US-PAT-NO: 5303146

DOCUMENT-IDENTIFIER: US 5303146 A

TITLE: System and methods for improved scenario management in an electronic spreadsheet

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KMIC	Draw Desc	Image
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Terms used **spreadsheets AND updating formula**Found **7,544** of **148,162**

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[07/887,873] 12/24/2004

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Best 200 shown

Relevance scale ☐ ☐ ☐ ☐ ☐

1 [Online analytic processing \(OLAP\): Spreadsheets in RDBMS for OLAP](#)

Andrew Witkowski, Srikanth Bellamkonda, Tolga Bozkaya, Gregory Dorman, Nathan Folkert, Abhinav Gupta, Lei Shen, Sankar Subramanian

 June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

 Full text available: [pdf\(182.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the critical deficiencies of SQL is lack of support for n-dimensional array-based computations which are frequent in OLAP environments. Relational OLAP (ROLAP) applications have to emulate them using joins, recently introduced SQL Window Functions [18] and complex and inefficient CASE expressions. The designated place in SQL for specifying calculations is the SELECT clause, which is extremely limiting and forces the user to generate queries using nested views, subqueries and complex joins ...

2 [A generalised spreadsheet verification methodology](#)

Nick Randolph, John Morris, Gareth Lee

 January 2002 **Australian Computer Science Communications , Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4, Volume 24 Issue 1**

 Full text available: [pdf\(843.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Although spreadsheets have been around for over thirty years, we are only just realising their importance. Most companies use spreadsheets in their decision-making processes, but rarely employ any form of testing. This paper shows how an "all-uses" test adequacy technique can be integrated into Microsoft's Excel. The modular technique adopted makes the implementation spreadsheet package independent. It also includes a user interface, to assist developers specify test cases and a technique for re ...

Keywords: errors, software testing, spreadsheets, verification

3 [A methodology for testing spreadsheets](#)

Gregg Rothermel, Margaret Burnett, Lixin Li, Christopher Dupuis, Andrei Sheretov

 January 2001 **ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 10 Issue 1**

 Full text available: [pdf\(353.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Spreadsheet languages, which include commercial spreadsheets and various research systems, have had a substantial impact on end-user computing. Research shows, however, that spreadsheets often contain faults; thus, we would like to provide at least some of the benefits of formal testing methodologies to the creators of spreadsheets. This article presents a testing methodology that adapts data flow adequacy criteria and coverage

monitoring to the task of testing spreadsheets. To accommodate ...

Keywords: software testing, spreadsheets

4 Implementation of an APL—based spreadsheet manager

Tom Puckett

January 1987 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL in transition**, Volume 17 Issue 4

Full text available:  [pdf\(1.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the implementation of the STSC Spreadsheet Manager for users of STSC's APL*PLUS® PC System. The discussion is primarily from the standpoint of the product's internal workings. Important aspects are selection and interfacing of the languages to be used in the implementation (APL, C, and assembler), compatibility with Lotus® data structures, mappings between data in the APL and Lotus environments, manipulation of data in a spreadsheet context, and separation of fu ...

5 A spreadsheet interface for visualization exploration

T. J. Jankun-Kelly, Kwan-Liu Ma

October 2000 **Proceedings of the conference on Visualization '00**


Full text available:  [pdf\(547.98 KB\)](#) Additional Information: [full citation](#), [index terms](#)

Keywords: knowledge representation, scientific visualization, spreadsheets, user interfaces, visualization systems, volume rendering

6 Toward a logical/physical theory of spreadsheet modeling

Tomás Isakowitz, Shimon Schocken, Henry C. Lucas

January 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 1

Full text available:  [pdf\(2.76 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


In spite of the increasing sophistication and power of commercial spreadsheet packages, we still lack a formal theory or a methodology to support the construction and maintenance of spreadsheet models. Using a dual logical/physical perspective, we identify four principal components that characterize any spread sheet model: schema, data, editorial, and binding. We present a factoring algorithm for identifying and extracting these components ...

Keywords: model management

7 Slicing spreadsheets: an integrated methodology for spreadsheet testing and debugging

James Reichwein, Gregg Rothermel, Margaret Burnett


December 1999 **ACM SIGPLAN Notices , Proceedings of the 2nd conference on Domain-specific languages**, Volume 35 Issue 1

Full text available:  [pdf\(2.17 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Spreadsheet languages, which include commercial spreadsheets and various research systems, have proven to be flexible tools in many domain specific settings. Research shows, however, that spreadsheets often contain faults. We would like to provide at least some of the benefits of formal testing and debugging methodologies to spreadsheet developers. This paper presents an integrated testing and debugging methodology for spreadsheets. To accommodate the modelless and incremental development, t ...

8 Object-oriented spreadsheets: the analytic spreadsheet package


Kurt W. Piersol

June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 21 Issue 11Full text available:  [pdf\(538.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The ASP package, a spreadsheet implemented in Smalltalk-80, is discussed. A description of the unique data manipulation features of ASP is given. A discussion of how these features arise from the Smalltalk-80 environment is included, with emphasis on features not common to all object oriented languages.

9 Spreadsheet-based interactive graphics: from prototype to tool

Nicholas Wilde, Clayton Lewis

March 1990 **Proceedings of the SIGCHI conference on Human factors in computing systems: Empowering people**Full text available:  [pdf\(810.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The NoPumpG prototype [7,8] suggested that the spreadsheet model of computation could simplify the creation of some types of interactive graphical application when compared with other approaches. We report here experience in developing an enhanced follow-on system, NoPumpII, and describe three applications developed using it. We conclude that (1) the potential advantages of the spreadsheet model are realized in this application experience, (2) revisions to the prototype design have permitted ...

10 Graphical techniques in a spreadsheet for specifying user interfaces

Brad A. Myers

March 1991 **Proceedings of the SIGCHI conference on Human factors in computing systems: Reaching through technology**Full text available:  [pdf\(794.10 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**11 Debugging and finding faults: End-user software visualizations for fault localization**

J. Ruthruff, E. Creswick, M. Burnett, C. Cook, S. Prabhakararao, M. Fisher, M. Main


June 2003 **Proceedings of the 2003 ACM symposium on Software visualization**Full text available:  [pdf\(359.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

End-user programming has become the most common form of programming today. However, despite this growth, there has been little investigation into bringing the benefits of software visualization to end-user programmers. Evidence from the spreadsheet paradigm, probably the most widely used end-user environment, reveals that end users' programs often contain faults. We would like to integrate software visualization into these end-user environments to help end users deal with the reliability issues ...

Keywords: end-user programming, end-user software engineering, end-user software visualization, fault localization, spreadsheets

12 Integrating pointer variables into one-way constraint models

Brad Vander Zanden, Brad A. Myers, Dario A. Giuse, Pedro Szekely

June 1994 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 1 Issue 2Full text available:  [pdf\(3.71 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Pointer variables have long been considered useful for constructing and manipulating data structures in traditional programming languages. This article discusses how pointer variables can be integrated into one-way constraint models and indicates how these constraints can be usefully employed in user interfaces. Pointer variables allow constraints


to model a wide array of dynamic application behavior, simplify the implementation of structured objects and demonstrational systems, and improve ...

Keywords: Garnet, constraints, development tools, incremental algorithms

13 An ethnographic study of distributed problem solving in spreadsheet development

Bonnie A. Nardi, James R. Miller

September 1990 **Proceedings of the 1990 ACM conference on Computer-supported cooperative work**

Full text available:  [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In contrast to the common view of spreadsheets as "single-user" programs, we have found that spreadsheets offer surprisingly strong support for cooperative development of a wide variety of applications. Ethnographic interviews with spreadsheet users showed that nearly all of the spreadsheets used in the work environments studied were the result of collaborative work by people with different levels of programming and domain expertise. Cooperation among spreadsheet users was spontaneous ...

14 A bug's eye view of immediate visual feedback in direct-manipulation programming systems

Curtis Cook, Margaret Burnett, Derrick Boom

October 1997 **Papers presented at the seventh workshop on Empirical studies of programmers**

Full text available:  [pdf\(1.87 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Beyond interface builders: model-based interface tools

Pedro Szekely, Ping Luo, Robert Neches

May 1993 **Proceedings of the SIGCHI conference on Human factors in computing systems**



Full text available:  [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: UIMS, design process, interface builders, model-based interface tools

16 Spreadsheets for images

Marc Levoy

July 1994 **Proceedings of the 21st annual conference on Computer graphics and interactive techniques**

Full text available:  [pdf\(69.71 KB\)](#)  [ps\(106.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


We describe a data visualization system based on spreadsheets. Cells in our spreadsheet contain graphical objects such as images, volumes, or movies. Cells may also contain widgets such as buttons, sliders, or curve editors. Objects are displayed in miniature inside each cell. Formulas for cells are written in a general-purpose programming language (Tcl) augmented with operators for array manipulation, image processing, and rendering. Compared to flow chart visualization systems, ...

Keywords: data visualization, flow charts, spreadsheets, user interfaces, visual programming languages

17 Using taps to separate the user interface from the application code

Thomas Berlage

December 1992 **Proceedings of the 5th annual ACM symposium on User interface software and technology**

Full text available:  [pdf\(836.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A new mechanism based on taps is introduced to separate the output from the application code in graphical interactive interfaces. The mechanism is implemented in GINA, an object-oriented application framework. Taps maintain a functional mapping from application data to interface objects that is described in a general-purpose programming language. Taps are triggered automatically by user actions. Compared to constraints or the MVC model, taps do not need execution or memory support from the ...

Keywords: change propagation, command objects, user interface management systems

18 Monads for incremental computing

Magnus Carlsson

September 2002 **ACM SIGPLAN Notices , Proceedings of the seventh ACM SIGPLAN international conference on Functional programming**, Volume 37 Issue 9

Full text available:  [pdf\(117.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a monadic approach to incremental computation, suitable for purely functional languages such as Haskell. A program that uses incremental computation is able to perform an incremental amount of computation to accommodate for changes in input data. Recently, Acar, Blelloch and Harper presented a small Standard ML library that supports efficient, high-level incremental computations [1]. Here, we present a monadic variant of that library, written in Haskell extended with first-cl ...

19 A scalable method for deductive generalization in the spreadsheet paradigm

Margaret Burnett, Sherry Yang, Jay Summet

December 2002 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 9 Issue 4

Full text available:  [pdf\(2.31 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


In this paper, we present an efficient method for automatically generalizing programs written in spreadsheet languages. The strategy is to do generalization through incremental analysis of logical relationships among concrete program entities from the perspective of a particular computational goal. The method uses deductive dataflow analysis with algebraic back-substitution rather than inference with heuristics, and there is no need for generalization-related dialog with the user. We present the ...

Keywords: Forms/3, Human-computer interaction, concrete programming, generalization, graphical programming, spreadsheet languages

20 Generating spreadsheet-like tools from strong attribute grammars

João Saraiva, Doaitse Swierstra

September 2003 **Proceedings of the second international conference on Generative programming and component engineering**

Full text available:  [pdf\(161.50 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents techniques for the formal specification and efficient incremental implementation of spreadsheet-like tools. The spreadsheets are specified by strong attribute grammars. In this style of attribute grammar programming every single inductive computation is expressed within the attribute grammar formalism. Well-known attribute grammar techniques are used to reason about such grammars. For example, ordered scheduling algorithms can be used to statically guarantee termination of the ...

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